

# WHAT IS THIS?



**Clue #1: Picture Decoder**  
Each decimal is written in a different form below. Write the answer on each line. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

**Clue #2: Color the Race Track**  
Solve each question. Circle the right answer and color in the picture. Then read the bottom.

**Clue #3: Right or Wrong?**  
Color the flag green if the answer is correct. Color the flag red if it's wrong.

**Clue #4: Red Light Green Light**  
Write each fraction as a decimal. Put the correct answer in each circle. Then, read what to do at the bottom.

**Clue #5: Find It!**  
Begin at the START box. Decide if each word form matches the decimal in standard form. Circle right answers. Cross out wrong ones. Drive through the maze by following the CORRECT answers and the mystery phrase will be revealed.

Color the winner's car green.

What words did you circle? Write the phrase on the line. Cross the wrong race car off your list.

*The winner is not near a traffic light*

## solve the mystery



The Case of the Big Race

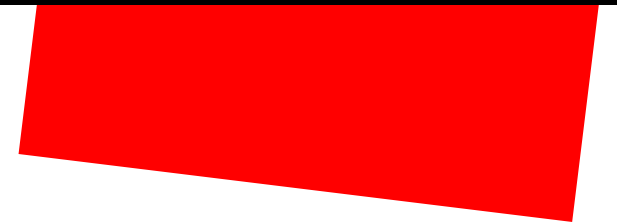
**Who Won the Race?**  
Figure out who won the big race by solving each clue.

|                 |                  |                 |                  |
|-----------------|------------------|-----------------|------------------|
| My car is blue. | My car is green. | My car is red.  | My car is blue.  |
| 1 Ji            | 2 Milo           | 3 Andre         | 4 Luna           |
| My car is red.  | My car is green. | My car is pink. | My car is black. |
| 5 Leo           | 6 Jada           | 7 Eve           | 8 Nobu           |

Name: \_\_\_\_\_

Students complete a series of clues to figure out who won the race!

# HOW TO PLAY



## What Happened?

You forgot to watch the big race on TV last night. Now, you're going to need to solve some clues to figure out who won! Help figure out who came in 1<sup>st</sup> place so you'll be able to chat with friends about the winner.

1. Take a list of racers and then start solving each clue.
2. Each time you solve a clue, you will get closer to discovering who won the race.
3. Cross out wrong race cars each time you find out new information. Good luck!



THE LIFETIME LEARNER

## Clue #1: Picture Decoder

Each decimal is written in a different form below. Write the answer on each line. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

|                                                                                               |                                                                                               |                                                                                              |                                                                                                |                                                                                              |                                                                                               |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <br>429.06 | <br>42.906 | <br>4.296 | <br>429.006 | <br>0.429 | <br>42.096 |
| Answers: <u>429.006</u>                                                                       | <u>42.906</u>                                                                                 | <u>4.296</u>                                                                                 | <u>429.06</u>                                                                                  | <u>42.096</u>                                                                                | <u>0.429</u>                                                                                  |
| Four hundred<br>twenty nine<br>and six<br>thousandths                                         | 40x1+<br>2x1+<br>9x1/10+<br>6x1/1000                                                          | Four and two<br>hundred<br>ninety-six<br>thousandths                                         | 400x1+<br>20x1+<br>9x1+<br>6x1/100                                                             | Forty-two and<br>ninety-six<br>thousandths                                                   | 4x1/10+<br>2x1/100+<br>9x1/1000                                                               |
| Letters: <u>N</u>                                                                             | <u>D</u>                                                                                      | <u>T</u>                                                                                     | <u>R</u>                                                                                       | <u>E</u>                                                                                     | <u>D</u>                                                                                      |

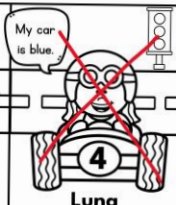
The winning  
car is...

Use this decoder to help you figure out what letter is equal to each picture.

|                                                                                           |                                                                                           |                                                                                           |                                                                                           |                                                                                           |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| A =  | G =  | M =  | S =  | Y =  |
| B =  | H =  | N =  | T =  | Z =  |
| C =  | I =  | O =  | U =  |                                                                                           |
| D =  | J =  | P =  | V =  |                                                                                           |
| E =  | K =  | Q =  | W =  |                                                                                           |
| F =  | L =  | R =  | X =  |                                                                                           |

## Who Won the Race?

Figure out who won the big race by solving each clue.

|                                                                                                                     |                                                                                                                        |                                                                                                                       |                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>My car is blue.<br>1<br>Ji  | <br>My car is green.<br>2<br>Milo  | <br>My car is red.<br>3<br>Andres | <br>My car is blue.<br>4<br>Luna   |
| <br>My car is red.<br>5<br>Leo | <br>My car is green.<br>6<br>Jada | <br>My car is pink.<br>7<br>Eve  | <br>My car is black.<br>8<br>Nobu |

Name: \_\_\_\_\_

THE LIFETIME LEARNER

Each time students solve a clue, it will reveal which racers to cross out.  
When all clues are completed, the mystery of the big race will be solved!

# SKILL PRACTICE

**Clue #1: Picture Decoder**  
Each decimal is written in a different form below. Write the answer on each line. Then, draw a line to each match.  
Last, use the decoder at the bottom to solve the clue.

Answers: 429.06, 42.906  
Letters: N, D  
The winning car is...

**Clue #2: Color the Race Track**  
Solve each question. Circle the right answer and color in the picture. Then read the bottom.

Where is Point P located?  
A. 75.23 - red trophy  
B. 75.13 - blue trophy  
C. 75.31 - yellow trophy  
D. 75.031 - green trophy

Where is Point Q located?  
A. 75.23 - red flags  
B. 75.013 - blue flags  
C. 75.023 - yellow flags  
D. 75.03 - green flags

Where is Point R located?  
A. 75.06 - red finish line  
B. 75.006 - blue finish line  
C. 75.16 - yellow finish line  
D. 75.016 - green finish line

Where is Point S located?  
A. 7.05 - red road  
B. 6.8 - blue road  
C. 7.5 - yellow road  
D. 7.55 - green road

Where is Point T located?  
A. 71 - red cars  
B. 716 - blue cars  
C. 7.06 - yellow cars  
D. 712 - green cars

Where is Point U located?  
A. 6.8 - red traffic light  
B. 6.28 - blue traffic light  
C. 6.82 - yellow traffic light  
D. 6.18 - green traffic light

Choose the key below that matches how you colored the picture of the race track.

Cross out Car 8 if this is true:  
• Yellow trophy  
• Green flags  
• Blue finish line  
• Red road  
• Blue cars  
• Yellow traffic light

Cross out Car 6 if this is true:  
• Green trophy  
• Yellow flags  
• Red finish line  
• Blue road  
• Blue cars  
• Yellow traffic light

Cross out Car 4 if this is true:  
• Green trophy  
• Yellow flags  
• Blue finish line  
• Red road  
• Yellow cars  
• Blue traffic light

Cross out Car 2 if this is true:  
• Green trophy  
• Yellow flags  
• Blue finish line  
• Red road  
• Blue cars  
• Yellow traffic light

**Clue #3: Right or Wrong?**  
Flag green if the answer is correct. Color the flag red if it's wrong.

$5x1/100 + 9x1/100 + 4x1/1000$   
20.71

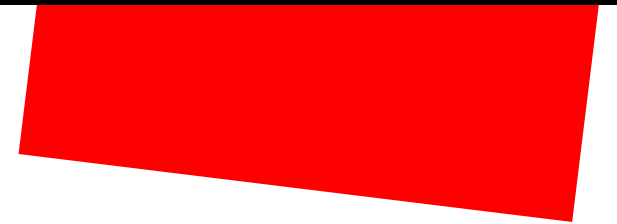
$2x10 + 7x1/10 + 1x1/100$   
7.209

$2x1 + 5x1/10 + 4x1/100 + 3x1/1000$   
2.543

- Read and Write Decimals to the Thousandths Place
- Race Car-Themed
- Error Analysis Practice

**All clues focus on reviewing 5<sup>th</sup> grade skills!**

# MULTIPLE VERSIONS



## Print & Digital Forms

**Clue #1: Picture Decoder**  
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**Clue #2: Color the Race Track**  
Solve each question. Circle the right answer and color in the picture. Then read the bottom.

**Clue #3: Right or Wrong?**  
Color the flag green if the answer is correct. Color the flag red if it's wrong.

**3 Clue Version**

More red flags = Cross out all cars WITH flags.  
More green flags = Cross out all cars with NO flags.

**Clue #1: Picture Decoder**  
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**Clue #2: Color the Race Track**  
Solve each question. Circle the right answer and color in the picture. Then read the bottom.

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Color the flag green if the answer is correct. Color the flag red if it's wrong.

**Clue #4: Red Light Green Light**  
Write each fraction as a decimal. Put the correct answer in each circle. Then, read what to do at the bottom.

**Clue #5: Find It!**  
Begin at the START box. Decide if each word form matches the decimal in standard form. Circle right answers. Cross out wrong ones. Drive through the maze by following the CORRECT answers and the mystery phrase will be revealed.

**5 Clue Version**

The winner is not near a traffic light

**Clue #1: Picture Decoder**  
Each decimal is written in a different form below. Write the answer on each line. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Answers: 429.006, 42.906, 4.296, 429.006, 0.429, 42.096

Letters: N, O, I, R

The winning car is...

Use this decoder to help you figure out what letter is equal to each picture.

**Clue #1: Picture Decoder**  
Each decimal is written in a different form below. Write the answer on each line. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Answers: 429.006, 42.906, 4.296, 429.006, 0.429, 42.096

Letters: N, O, I, R

The winning car is...

Use this decoder to help you figure out what letter is equal to each picture.

## Short & Long Options

# 2 MATH FACT OPTIONS!



### Who Won the Race?

Figure out who won the big race by solving each clue.

|                     |                      |                     |                      |
|---------------------|----------------------|---------------------|----------------------|
| <br>My car is blue. | <br>My car is green. | <br>My car is red.  | <br>My car is blue.  |
| <br>My car is red.  | <br>My car is green. | <br>My car is pink. | <br>My car is black. |

Name: \_\_\_\_\_

### Clue #1: Picture Decoder

Write the answer on each line. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Answers:  $13 \div 4 = 3$ ,  $18 \div 12 = 6$ ,  $12 \div 7 = 5$ ,  $14 \div 6 = 8$ ,  $17 \div 2 = 5$

Letters: N O I R E

The winning car is...

### Clue #4: Red Light Green Light

Put the correct answer in each circle. Then, read what to do at the bottom.

|                       |                      |                      |
|-----------------------|----------------------|----------------------|
| $90 \div 9 = 10$<br>A | $49 \div 7 = 7$<br>E | $14 \div 7 = 2$<br>L |
| $24 \div 8 = 3$<br>L  | $40 \div 5 = 8$<br>N | $48 \div 8 = 6$<br>J |
| $50 \div 10 = 5$<br>M | $5 \div 5 = 1$<br>J  | $20 \div 5 = 4$<br>N |

Color these answers RED:  
1, 2, 3, 4, 5, 7, 8, 10

What letter is not red? Write it on the line.

The winner's name starts with the letter J.

### Clue #2: Color the Race Track

Solve each question. Circle the right answer and color in the picture. Then read the bottom.

17-9: A. 5 - red trophy, B. 6 - blue trophy, C. 7 - yellow trophy, D. 8 - green trophy

8-5: A. 1 - red flags, B. 2 - blue flags, C. 3 - yellow flags, D. 4 - green flags

12-7: A. 4 - red finish line, B. 5 - blue finish line, C. 6 - yellow finish line, D. 7 - green finish line

20-5: A. 15 - red road, B. 14 - blue road, C. 13 - yellow road, D. 12 - green road

15-7: A. 7 - red cars, B. 8 - blue cars, C. 9 - yellow cars, D. 10 - green cars

16-4: A. 10 - red traffic light, B. 8 - blue traffic light, C. 12 - yellow traffic light, D. 13 - green traffic light

### Clue #3: Right or Wrong?

Color the flag green if the answer is correct. Color the flag red if it's wrong.

|              |              |             |
|--------------|--------------|-------------|
| $5+4$<br>9   | $10+7$<br>17 | $8+3$<br>11 |
| $9+7$<br>16  | $3+2$<br>5   | $5+9$<br>14 |
| $11+6$<br>19 | $5+4$<br>19  | $6+4$<br>10 |

### Clue #5: Find It!

Begin at the START box. Circle right answers. Cross out wrong ones. Drive through the maze by following the CORRECT answers and the mystery phrase will be revealed.

|                   |                    |                   |                   |
|-------------------|--------------------|-------------------|-------------------|
| $8 \div 4 = 2$    | $3 \times 7 = 22$  | $35 \div 7 = 6$   | $4 \times 5 = 21$ |
| $9 \times 5 = 45$ | $27 \div 9 = 3$    | $8 \times 6 = 48$ | $15 \div 3 = 5$   |
| $72 \div 8 = 8$   | $4 \times 10 = 40$ | $42 \div 6 = 7$   | $7 \times 9 = 63$ |

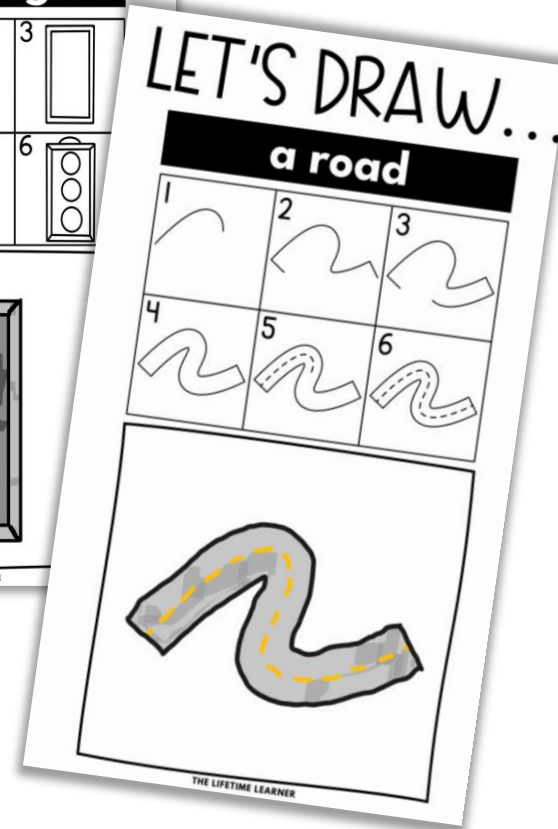
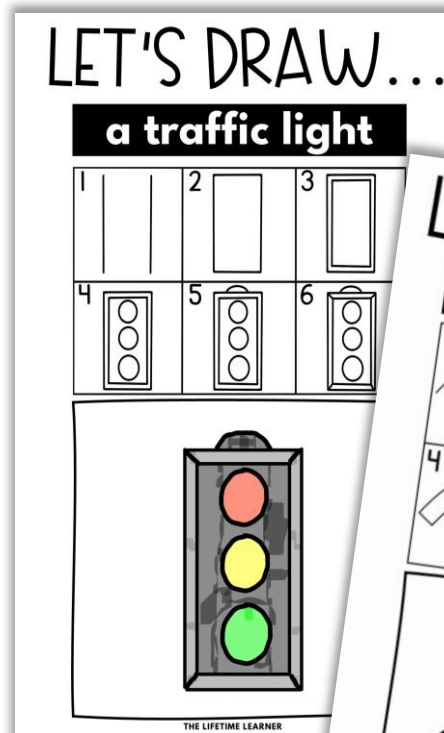
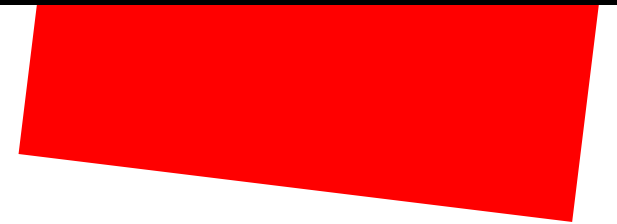
What words did you circle? Write the phrase on the line. Cross the wrong race car off your list.

The winner is not near a traffic light

Same clues. Same mystery. Different math!

Use the add/subtract facts to 20 mystery or the multiplication/division facts 1-12 mystery!

# FAST FINISHER ACTIVITY



If students finish early,  
give them a  
certificate of completion  
and a directed drawing  
to complete while others  
continue working.

# MATH MYSTERY BENEFITS

- No Prep
- Print and Digital Versions
- 3 & 5 Clue Options
- Extra Math Facts Mystery
- Fun and Engaging
- Easy to Differentiate
- Encourages Critical Thinking
- Aligns with Math Standards
- Perfect for Review Days

**Clue #4: Red Light Green Light**

Write each fraction as a decimal. Put the correct answer in each circle. Then, read what to do at the bottom.

| Column 1                           | Column 2                             | Column 3                            |
|------------------------------------|--------------------------------------|-------------------------------------|
| $43 \frac{6}{1000}$<br>43.006<br>A | $43 \frac{48}{1000}$<br>43.048<br>E  | $43 \frac{55}{1000}$<br>43.055<br>L |
| $43 \frac{35}{100}$<br>43.35<br>L  | $43 \frac{355}{1000}$<br>43.355<br>N | $43 \frac{4}{10}$<br>43.4<br>J      |
| $43 \frac{44}{100}$<br>43.44<br>M  | $43 \frac{76}{1000}$<br>43.076<br>J  | $43 \frac{600}{1000}$<br>43.6<br>N  |

Color these answers RED:  
• 43.055 • 43.44 • 43.35 • 43.076  
• 43.6 • 43.006 • 43.048 • 43.355

The winner's name starts with the letter J.

What letter is not red? Write it on the line.

THE LIFETIME LEARNER

In 5<sup>th</sup> grade, this works well in small groups or in partners.

# WHY TEACHERS LOVE THESE!

Ordinary math worksheets can be boring and unoriginal.

You want activities that are fun and engaging, but also rigorous and meaningful to student learning.

**MATH MYSTERIES ARE EXACTLY WHAT YOU'VE BEEN LOOKING FOR!**

The collage features five math mystery worksheets:

- Clue #1: Picture Decoder**: A worksheet where students write answers to math questions and use a decoder to solve a clue. The decoder shows a sequence of numbers: 7500, 7501, 7502, 7503, 7504.
- Clue #2: Color the Race Track**: A worksheet where students solve math problems and color a race track. The problems are:  $8 \times 1 + 3 \times 10 + 5 \times 100$ ,  $4 \times 10 + 2 \times 1$ , and  $2 \times 10 + 7 \times 10$ .
- Clue #3: Right or Wrong?**: A worksheet where students color a flag green if the answer is correct and red if it's wrong. The problems are:  $8 \times 1 + 3 \times 10 + 5 \times 100$ ,  $4 \times 10 + 2 \times 1$ , and  $2 \times 10 + 7 \times 10$ .
- Clue #4: Red Light Green Light**: A worksheet where students put the correct answer in each circle and then read what to do at the bottom.
- Clue #5: Find It!**: A worksheet where students begin at the START box, decide if each word form matches the decimal in standard form, circle right answers, cross out wrong ones, and drive through the maze by following the correct answers and the mystery phrase.

Other worksheets shown include:

- The Detective Agency sends congratulations to:** A certificate for Lindsay, dated 11/2, presented by SW.
- LET'S DRAW...**: Two drawing prompts: "a road" and "a traffic light".
- Who Won the Race?**: A worksheet where students figure out who won the big race by solving each clue. The clues are: "My car is blue", "My car is red", "My car is green", "My car is pink", "My car is black", "My car is yellow", "My car is orange", "My car is purple".
- solve the mystery**: A worksheet with a cartoon car and the text "The Case of the Big Race".

# WHAT MAKES MATH MYSTERIES UNIQUE?

Math Mysteries aren't just a copy of Reading Mysteries!

They have brand-new clues, focus on math skills, and even feature a different conclusion to the mystery.

The only thing that stays the same is the list of suspects students start with!

So, if you have both, students can play during math and then again during reading for double the fun.

Reading

**Clue #1: Descrambler**

Read each riddle. Match it with a word at the bottom. Write the letter next to each race car on each line. When the letters are unscrambled, they will make up the clue.

| track                                                                                                                                                                  | speedy                                                                                                                                                                 | trophy                                                                                                                                                                           | flag                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>I'm a noun that loops around a track. What word am I?                           | <br>I'm an adjective for a car that moves faster than all the rest. What word am I? | <br>I'm a noun handed to the winner at the very end of the race. What am I?                   | <br>I'm a noun that waves in the wind to tell racers to go or stop. What am I?   |
| <br>I'm an adjective for an engine that roars so everyone can hear. What word am I? | <br>I'm an adjective for a car's paint that sparkles in the sun. What word am I?    | <br>I'm an adverb for how a driver steers around sharp turns without a crash. What word am I? | <br>I'm a noun who wears a helmet and steers the car around the track. Who am I? |

The winner's car is:

N O T G R E E N

speedy shiny driver trophy safely track flag loud

Example of Clue 1

Math

**Clue #1: Picture Decoder**

Each decimal is written in a different form below. Write the answer on each line. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

|  |  |  |  |  |  |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 429.06                                                                                | 42.906                                                                                | 4296                                                                                  | 429.006                                                                               | 0.429                                                                                 | 42.096                                                                                |

Answers: 429.006 42.906 4.296 429.06 42.096 0.429

Four hundred twenty-nine and six thousandths  
40x+ 2x+ 9x/10+ 6x/1000  
Four and two hundred ninety-six thousandths  
400x+ 20x+ 9x+ 6x/100  
Forty-two and ninety-six thousandths  
4x/10+ 2x/100+ 9x/1000

The winning car is...

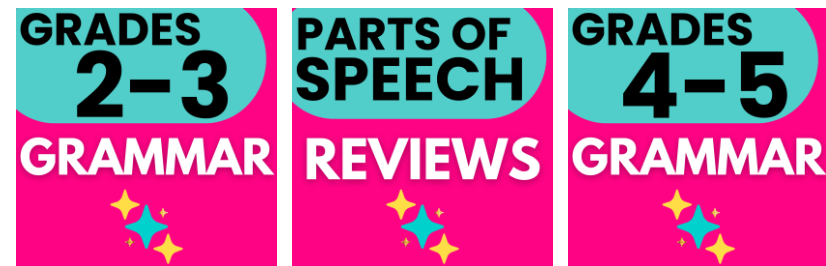
Use this decoder to help you figure out what letter is equal to each picture.

| A =                                                                                                                                                                                                                                                                                                                                                                                                           | G =                                                                                                                                                                                                                                                                                                         | M =                                                                                                                                                                                                       | S =                                                                                                     | Y =  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| B =  <td>H = <td>N = <td>T = <td>Z = </td></td></td></td> | H =  <td>N = <td>T = <td>Z = </td></td></td> | N =  <td>T = <td>Z = </td></td> | T =  <td>Z = </td> | Z =  |
| C =  <td>I = <td>O = <td>U = <td></td></td></td></td>                                                                                          | I =  <td>O = <td>U = <td></td></td></td>                                                                                          | O =  <td>U = <td></td></td>                                                                                          | U =  <td></td>                                                                                          |                                                                                           |
| D =  <td>J = <td>P = <td>V = <td></td></td></td></td>                                                                                          | J =  <td>P = <td>V = <td></td></td></td>                                                                                          | P =  <td>V = <td></td></td>                                                                                          | V =  <td></td>                                                                                          |                                                                                           |
| E =  <td>K = <td>Q = <td>W = <td></td></td></td></td>                                                                                          | K =  <td>Q = <td>W = <td></td></td></td>                                                                                          | Q =  <td>W = <td></td></td>                                                                                          | W =  <td></td>                                                                                          |                                                                                           |
| F =  <td>L = <td>R = <td>X = <td></td></td></td></td>                                                                                          | L =  <td>R = <td>X = <td></td></td></td>                                                                                          | R =  <td>X = <td></td></td>                                                                                          | X =  <td></td>                                                                                          |                                                                                           |

# KEEP THE FUN GOING!

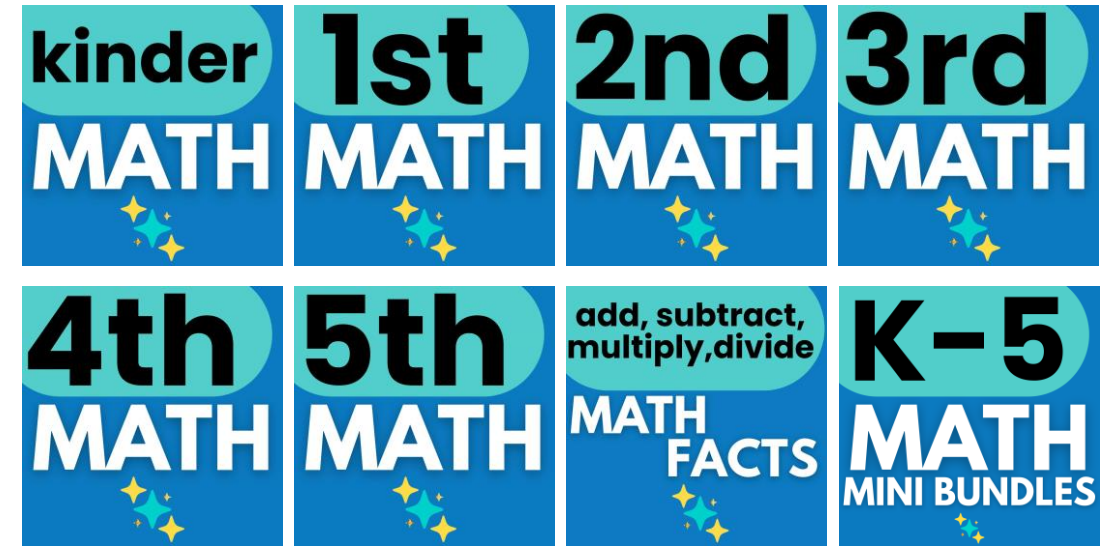
## GRAB A **READING MYSTERY**:

Reading mysteries aren't just a copy of math. They come with fresh clues, unique reading challenges, and a new culprit, so students are solving an entirely different case!



## MORE **MATH MYSTERIES**:

Explore other grade levels to differentiate and keep every student engaged.



BUY A BUNDLE  
TO **SAVE BIG!**

